

Do you develop large amounts of photographic material?

Would you like to improve this process in the following areas?

- Meeting environmental compliance regulations -- Reduce hazardous waste disposal and air emissions. Applicable regulatory areas include RCRA and VOC NAAQS.
- *Improving workers'* safety and health -- Enhance worker safety through decreased exposure to toxic chemicals.
- *Increasing productivity* -- Faster photo enlargements and reductions.
- *Saving money* -- Decrease the cost of hazardous waste disposal and procurement cost of photographic supplies.



Digital imaging system equipment

Digital imaging systems can replace approximately 60% of conventional photographic processes that use various hazardous materials for photographic prints and transparencies. The use of digital imaging systems will reduce procurement of chemicals, photographic paper, and film as well as the generation of hazardous waste. The system consists of a high-quality camera, computer workstation, optical scanner, and multiple printers. This equipment is available through the Navy Pollution Prevention Equipment Program.

How can you achieve these improvements?

Implement Digital Imaging System Equipment.

How does this equipment work?

A computer system digitally processes and prints images. The digital imaging system can reduce the need for conventional processing and printing.

How will this equipment save you money?

The typical cost to implement varies from \$130,000 to \$210,000 depending upon activity needs. The \$210,000 system typically pays for itself within 2.2 years; lower cost systems will pay for themselves quicker.

Typical Process Flow Diagram MATERIALS Developer Fixer Bleach PROCESS NAMES Photograph Development Mixing of Chemicals WASTE PRODUCTS Waste Chemicals Silver Recovery By-Products

How can this technology eliminate or reduce pollution?

When implemented, this technology can eliminate the use of harmful solvents. Implementation will result in the following pollution reductions:

- Reduction of Approximately 60% of Photographic Supplies and Hazardous Materials
- Reduced Generation of Hazardous Waste
- Decreased Requirement for Silver Recovery
- Save Time Required to Make Photo Enlargements/Reductions

Which shops can benefit most from this technology?

This technology can be used in shops which develop photograhs, mix photoographic chemicals, or alter photographs.

Take action: How can you implement this technology?

- Activity Shop & Work Center Personnel. If you work at an activity, contact your Pollution Prevention Program Manager. The P2 Program Manager can provide more information and conduct a more detailed analysis, and may be able to provide this equipment at no cost to a Shop or Work Center.
- Activity Pollution Prevention Manager. Request funding and installation assistance for this technology through the Navy P2 Equipment Program. Depending on the application, the Environmental Requirements Cookbook may contain project submission information for annual budget submissions to your major claimant.
- For Additional Technical Information. More information about this technology can be found in the PPEP Equipment Book (Web: http://www.lakehurst.navy.mil/p2/index.htm), which is contained in the Joint Service P2 Technical Library. (Web: http://www.nfesc.navy.mil/).

Achieving Environmental Compliance Through Pollution Prevention

Everyday the Navy faces the challenge of operating and maintaining the fleet while complying with environmental regulations. This burden can be reduced by implementing pollution prevention technologies and methods to reduce compliance requirements. This Fact Sheet is one in a series designed to encourage activities to implement pollution prevention technologies and methods. The overall goal of this series is to promote sustained environmental compliance at the lowest life-cycle cost.

For additional information, contact:

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